

SETTIMA[®]
research & innovation. always

Since 1978 the benchmark for three-screw pumps

THE INNOVATIVE MODULAR THREE-SCREW PUMP QUICKLY ADAPTABLE ON DEMAND



triumflex[®]

INTERNATIONALLY PATENTED
DESIGNED & MADE IN ITALY



LEADING THE ENERGY TRANSITION, TOGETHER

Driven by the combined expertise of Settima, Spin, and Motive, GREEN SILENCE GROUP delivers groundbreaking hydraulic, electro-hydraulic, and mechatronic solutions backed by exceptional technical support and real value.



ULTRA-SILENT HYDRAULICS

www.settima.it



HIGH EFFICIENCY, ELECTRIC MOTORS & DRIVES

www.motive.it



Engineering Solutions

ELECTRIC MOTORS & ACTUATORS, ADVANCED ENGINEERING & CONTROL ELECTRONICS

www.spinmag.it

THE INNOVATIVE MODULAR THREE-SCREW PUMP QUICKLY ADAPTABLE ON DEMAND

Innovative modular design to cover a wide range of configurations

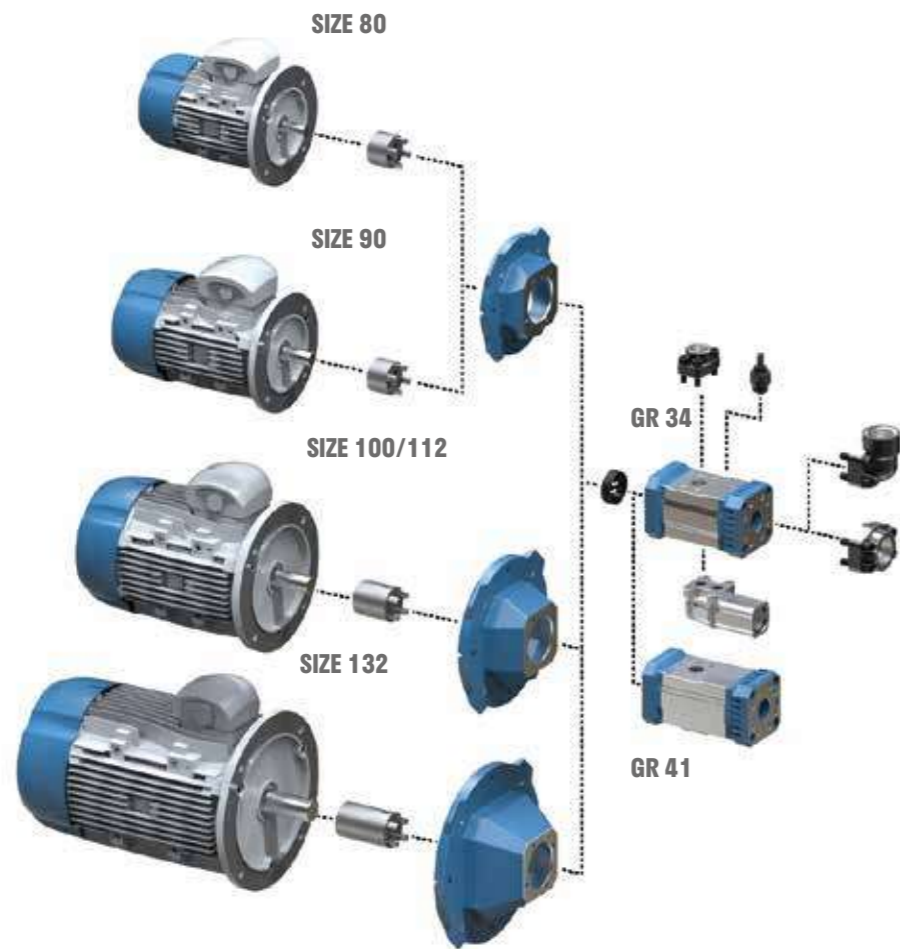
TRIUMFLEX® PUMP	4
Advantages	6
Innovation.....	8
Modular Design.....	9
Installation.....	11
Quick Reference Chart	12
Dimensional Drawings.....	14
Coding System.....	16
Series 50 Hz Performance Charts.....	24
Series 60 Hz Performance Charts.....	42
ELECTRO-HYDRAULIC GROUPS	60
Delphi Series.....	63
Nano.....	68
Neo.....	70
Others Motor Groups.....	72
7 Motives.....	73
Coding System.....	74
Applications.....	82

MODULAR THREE-SCREW

TRIUMFLEX PUMP

ADVANTAGES

- + Universal base pump configured according to application
- + Can be easily re-configured by replacing the optional kits only
- + Ultra compact footprint to fit all hydraulic systems
- + Unparalleled product availability
- + Base pump can be coupled to different motor sizes
- + Each pump size optimized to operate from 500 to 3600 RPM
- + One stop shop for pump, coupling kit and electric motor (optional)
- + Relief valve, noise-cancelling valve (optional kits according to the specific application)



Example for GR34 and GR41 only



MODULAR



ADAPTIVE



COMPACT



NO PULSATIONS



QUIET

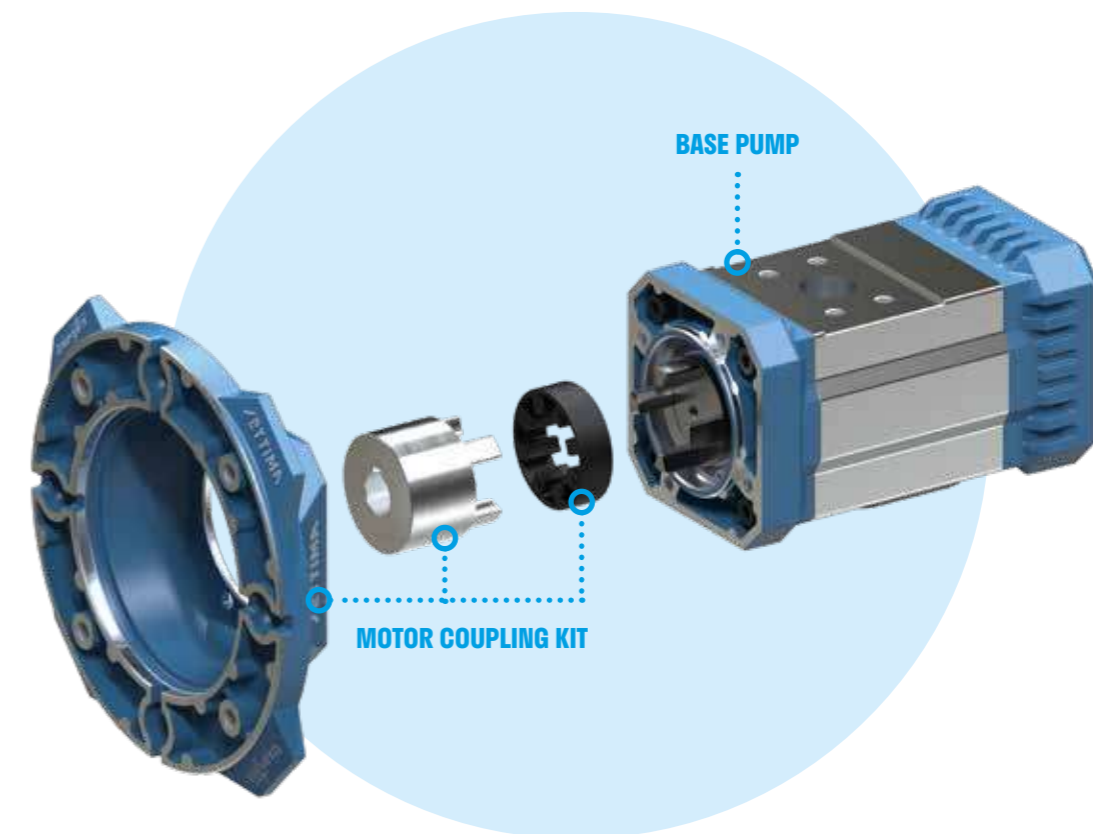


AFFORDABLE



ENVIRONMENTALLY SUSTAINABLE

2 AND 4 POLES FOR ALL MODELS



- **FLOW RATE:** (L/min) 9 ÷ 941
- **VISCOSITY:** (cSt) 15 ÷ 3000
- **MAX DIFF. PRESSURE:** (bar) 50
- **SPEED:** (rpm) 500 ÷ 3600
- **NPSHr:** ≥ 1,5 mWc

MAIN COMPONENTS	MATERIAL
Idler screw	Cast iron
Main screw	Carbon steel
Front flange	Aluminium
Rear flange	Aluminium
Pump casing	Aluminium
Seals	NBR

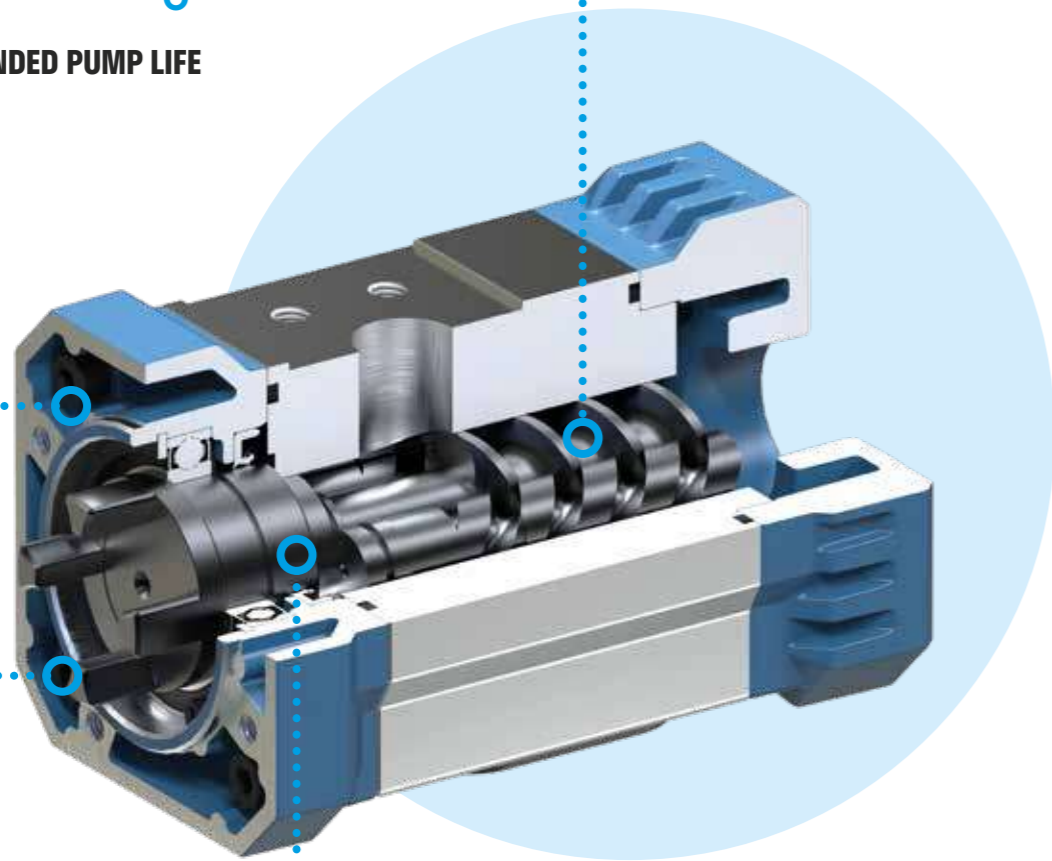
INNOVATION

SETTIMA Patented Design

+ **ULTRA COMPACT WITH CUTTING EDGE PERFORMANCES**

External Shielded Bearing

+ **EXTENDED PUMP LIFE**



Patented Built-in Jaw Coupling

+ **HEAVY DUTY DESIGN FOR 0÷3600 RPM**

Universal Lip Seal

+ **SUITABLE FOR ALL APPLICATIONS**

MODULAR DESIGN

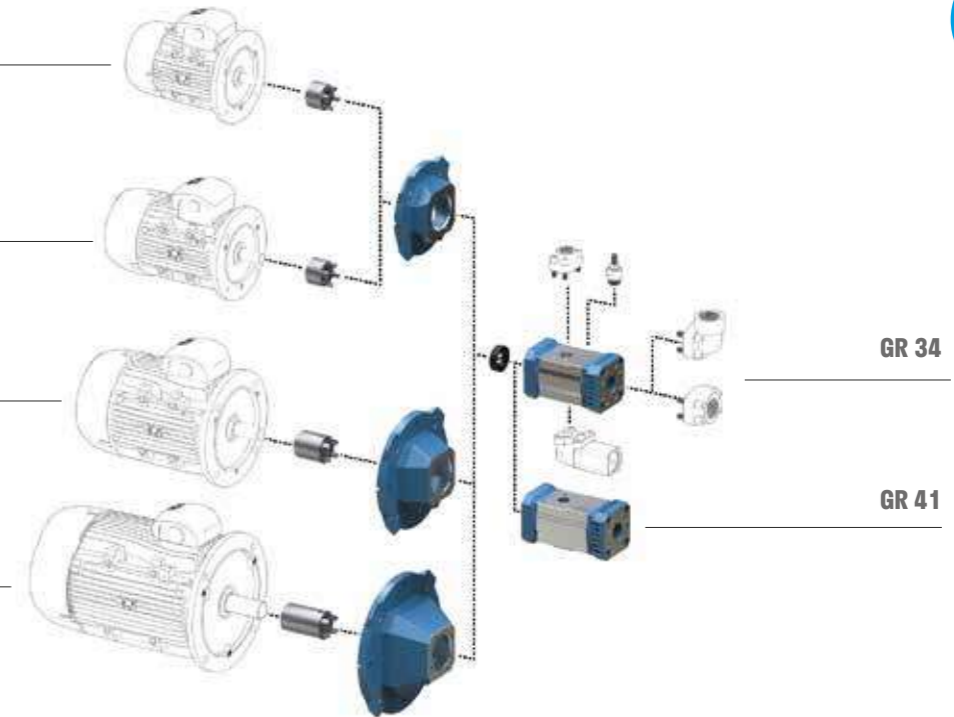
MOTOR COUPLING KITS

SIZE 80

SIZE 90

SIZE 100/112

SIZE 132

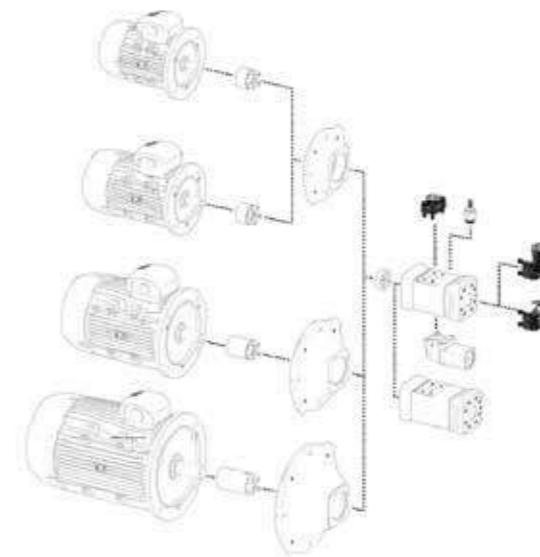


MODULAR

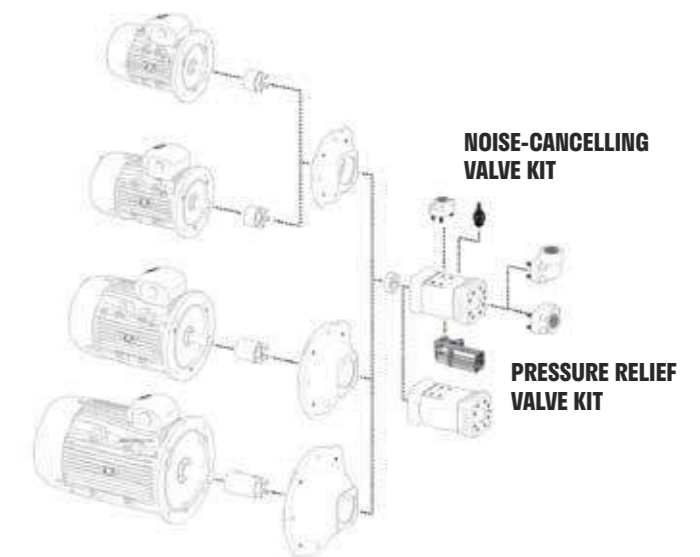


ADAPTIVE

PORT KITS (OPTIONAL)



VALVE KITS (OPTIONAL)



Example for GR34 and GR41 only

BASE PUMP + MOTOR COUPLING KIT



MODULAR



ADAPTIVE

PORTS ORIENTATION OPTIONS

NO SUCTION FLANGE KIT



SUCTION FLANGE KIT: **T1**



SUCTION FLANGE KIT: **T2**



Please contact Settima for T2 + RP valve

SUCTION FLANGE KIT: **T3**



SUCTION FLANGE KIT: **T4**



SUCTION FLANGE KIT: **AX**



Axial suction (SAE - threaded)

VALVE KITS

NOISE-CANCELLING VALVE KIT: **NV**



The NV KIT is engineered to cancel noise and vibrations due to cavitation generated by very high amount of trapped air in the pumped fluid. Very effective in applications such as gears splash lubrication or low volume lube oil systems.

PRESSURE RELIEF VALVE KIT: **RP**



Safety valve with adjustable setting pressure:
(01) 2 ÷ 15 bar
(02) 15 ÷ 50 bar

INSTALLATION

Triumflex® is already equipped with a flange suitable for **Tank Top Installation**.



MODULAR

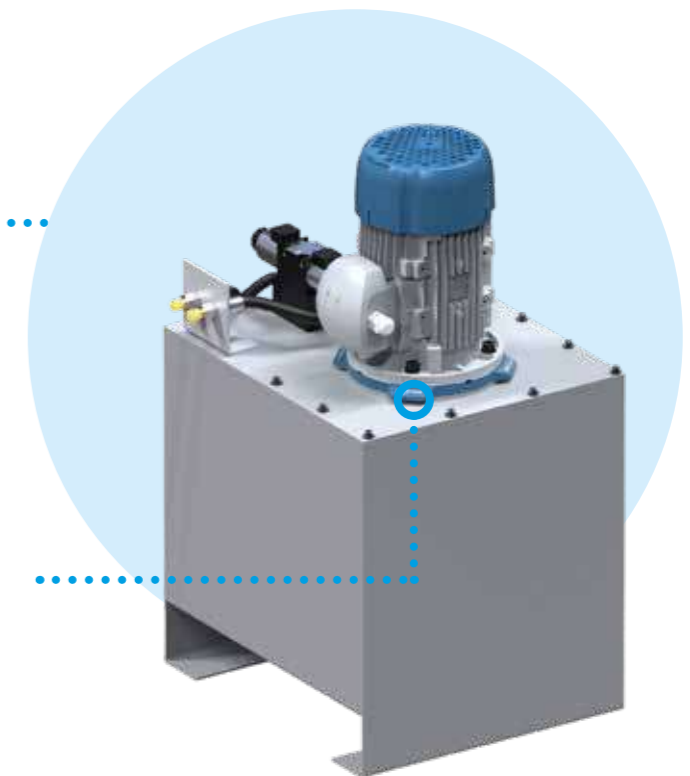


ADAPTIVE

HORIZONTAL INSTALLATION



VERTICAL INSTALLATION



Built-in
Tank Top Flange

+ NO EXTRA COST

QUICK REFERENCE CHART

Reference Example:

Speed: 1500 rpm
Pressure: 10 bar
Operative viscosity: 46 cSt

(For pump selection please refer to Performance Charts pages 24-59)

SIZE	PITCH	CODE	DISPLACEMENT [CC]	FLOW [L/min]	ABS. POWER [kW]
26	29	29	10	12	0,3
	33	33	11	14	0,4
	41	41	14	17	0,5
	49	49	17	20	0,6
34	34	34	20	26	0,7
	38	38	22	29	0,7
	50	50	29	38	1
41	48	48	40	55	1,3
	58	58	49	66	1,6
	68	68	57	78	1,9
46	62	62	68	95	2,2
	74	74	81	113	2,7
53	72	72	97	142	3,3
	82	82	101	162	3,7
	92	92	115	181	4,2
62	76	76	129	208	4,6
	90	90	146	246	5,5
	100	100	172	273	6,1

Reference Example:

Speed: 3000 rpm
Pressure: 10 bar
Operative viscosity: 46 cSt

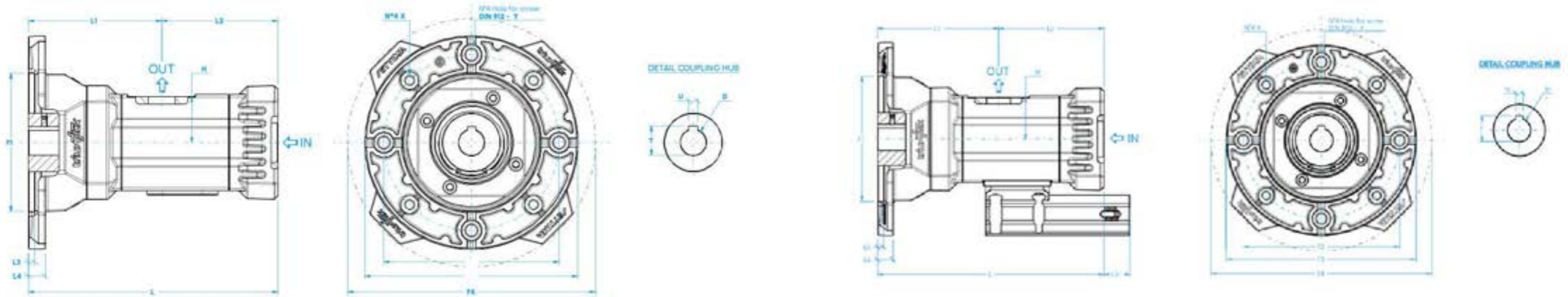
(For pump selection please refer to Performance Charts pages 24-59)

SIZE	PITCH	CODE	DISPLACEMENT [CC]	FLOW [L/min]	ABS. POWER [kW]
26	29	29	10	27	0,8
	33	33	11	30	0,9
	41	41	14	38	1,1
	49	49	17	45	1,3
34	34	34	20	55	1,5
	38	38	22	62	1,7
	50	50	29	81	2,2
41	48	48	40	115	3
	58	58	49	139	3,6
	68	68	57	163	4,2
46	62	62	68	197	4,9
	74	74	81	235	5,9
53	72	72	97	293	7,2
	82	82	101	334	8,1
	92	92	115	374	9,1
62	76	76	129	426	10,1
	90	90	146	504	12
	100	100	172	561	13,3

DIMENSIONAL DRAWINGS



COMPACT



Pump Code	Flange				Shaft					Ports		Pump				
	ØF1	ØF2	ØF3	ØF4	X	Y	D	U	T	IN	OUT	L	L1	L2	L3	L4
SM-TRFX034---M080	130	165	201	233	M10	M10	19	6	21,8	1"½ SAE-3000	1" SAE-3000	235	125,5	109,5	6	16
SM-TRFX034---M090	130	165	201	233	M10	M10	24	8	27,3	1"½ SAE-3000	1" SAE-3000	235	125,5	109,5	6	16
SM-TRFX034---M112	180	215	251	286	M12	M12	28	8	31,3	1"½ SAE-3000	1" SAE-3000	262	152,5	109,5	7	21
SM-TRFX034---M132	230	265	301	333	M12	M12	38	10	41,3	1"½ SAE-3000	1" SAE-3000	288,5	179	109,5	7	21
SM-TRFX041---M080	130	165	201	233	M10	M10	19	6	21,8	1"½ SAE-3000	1" SAE-3000	255	125,5	129,5	6	16
SM-TRFX041---M090	130	165	201	233	M10	M10	24	8	27,3	1"½ SAE-3000	1" SAE-3000	255	125,5	129,5	6	16
SM-TRFX041---M112	180	215	251	286	M12	M12	28	8	31,3	1"½ SAE-3000	1" SAE-3000	282	152,5	129,5	7	21
SM-TRFX041---M132	230	265	301	333	M12	M12	38	10	41,3	1"½ SAE-3000	1" SAE-3000	308,5	179	129,5	7	21
SM-TRFX046---M112	180	215	251	286	M12	M12	28	8	31,3	2"½ SAE-3000	1"½ SAE-3000	327,5	167,5	160	7	21
SM-TRFX046---M132	230	265	301	333	M12	M12	38	10	41,3	2"½ SAE-3000	1"½ SAE-3000	347,5	187,5	160	7	21
SM-TRFX046---M160	250	300	351	383	M16	M16	42	12	45,3	2"½ SAE-3000	1"½ SAE-3000	390,5	230,5	160	8	25
SM-TRFX046---M180	250	300	351	383	M16	M16	48	14	51,8	2"½ SAE-3000	1"½ SAE-3000	390,5	230,5	160	8	25

Pump Code	Flange				Shaft					Ports		Pump					
	ØF1	ØF2	ØF3	ØF4	X	Y	D	U	T	IN	OUT	L	L1	L2	L3	L4	L5
SM-TRFX034---M080	130	165	201	233	M10	M10	19	6	21,8	1"½ SAE-3000	1" SAE-3000	235	125,5	109,5	6	16	27
SM-TRFX034---M090	130	165	201	233	M10	M10	24	8	27,3	1"½ SAE-3000	1" SAE-3000	235	125,5	109,5	6	16	27
SM-TRFX034---M112	180	215	251	286	M12	M12	28	8	31,3	1"½ SAE-3000	1" SAE-3000	262	152,5	109,5	7	21	27
SM-TRFX034---M132	230	265	301	333	M12	M12	38	10	41,3	1"½ SAE-3000	1" SAE-3000	288,5	179	109,5	7	21	27
SM-TRFX041---M080	130	165	201	233	M10	M10	19	6	21,8	1"½ SAE-3000	1" SAE-3000	255	125,5	129,5	6	16	7
SM-TRFX041---M090	130	165	201	233	M10	M10	24	8	27,3	1"½ SAE-3000	1" SAE-3000	255	125,5	129,5	6	16	7
SM-TRFX041---M112	180	215	251	286	M12	M12	28	8	31,3	1"½ SAE-3000	1" SAE-3000	282	152,5	129,5	7	21	7
SM-TRFX041---M132	230	265	301	333	M12	M12	38	10	41,3	1"½ SAE-3000	1" SAE-3000	308,5	179	129,5	7	21	7
SM-TRFX046---M112	180	215	251	286	M12	M12	28	8	31,3	2"½ SAE-3000	1"½ SAE-3000	327,5	167,5	160	7	21	15
SM-TRFX046---M132	230	265	301	333	M12	M12	38	10	41,3	2"½ SAE-3000	1"½ SAE-3000	347,5	187,5	160	7	21	15
SM-TRFX046---M160	250	300	351	383	M16	M16	42	12	45,3	2"½ SAE-3000	1"½ SAE-3000	390,5	230,5	160	8	25	15
SM-TRFX046---M180	250	300	351	383	M16	M16	48	14	51,8	2"½ SAE-3000	1"½ SAE-3000	390,5	230,5	160	8	25	15

CODING SYSTEM

TRIUMFLEX
PUMP

CONFIGURATION

How to configure your TRIUMFLEX® PUMP

The Triumflex® **Ordering Code** is composed of maximum **9 items**.

ITEM	ITEM DESCRIPTION	ITEM CODE
1	Category pump model Triumflex®	SM-TRFX
2	Type	Assembled (A)
3	Pump size	026 - 034 - 041 - 046 - 053 - 062
4	Screw pitch	From 029 to 100
5	Motor coupling KIT	From motor size 80 to 200
6	Inlet - Port type	T1 - T2 - T3 - T4 or AX BSPP threaded
7	Outlet - Port type	M BSPP threaded
8	Noise-cancelling valve	NV
9	Pressure relief valve (RP) setting range	5 ÷ 15 bar (01) / 10 ÷ 50 bar (02)

ORDERING CODE EXAMPLE

YOUR TRIUMFLEX® ASSEMBLED PUMP

ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	ITEM 9
SM-TRFX	A	034	038	M08	T4	M	NV	01

P/N: SM-TRFXA000001

ORDERING CODE: **SM-TRFXA034038M08T4MNV01**

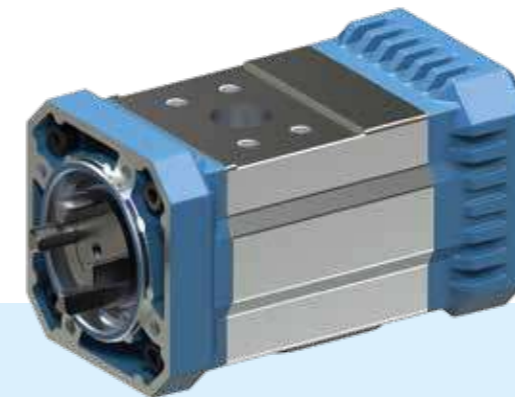
STEP 1

Select your Triumflex® Base Pump

Your **Base Pump** model depends on:

- Your **oil viscosity**
- Required **flow** and **pressure**

[Ref. to Performance Charts pages 24-59]



ORDERING CODE EXAMPLE

TRIUMFLEX® BASE PUMP

ORDERING CODE: **SM-TRFXA034038...**

A = ASSEMBLED PUMP
034 = PUMP SIZE
038 = SCREW PITCH

ITEM	CATEGORY	CODE
1	Triumflex® pump	SM-TRFX

ITEM	TYPE	CODE
2	Assembled	A

ITEM	PUMP SIZE	CODE
3	26	026
	34	034
	41	041
	46	046
	53	053
	62	062

ITEM	SIZE	SCREW PITCH	CODE
4	26	29	029
		33	033
		41	041
		49	049
	34	34	034
		38	038
		50	050
	41	48	048
		58	058
		68	068
	46	62	062
		74	074
	53	72	072
		82	082
		92	092
	62	76	076
90		090	
100		099	

STEP 2

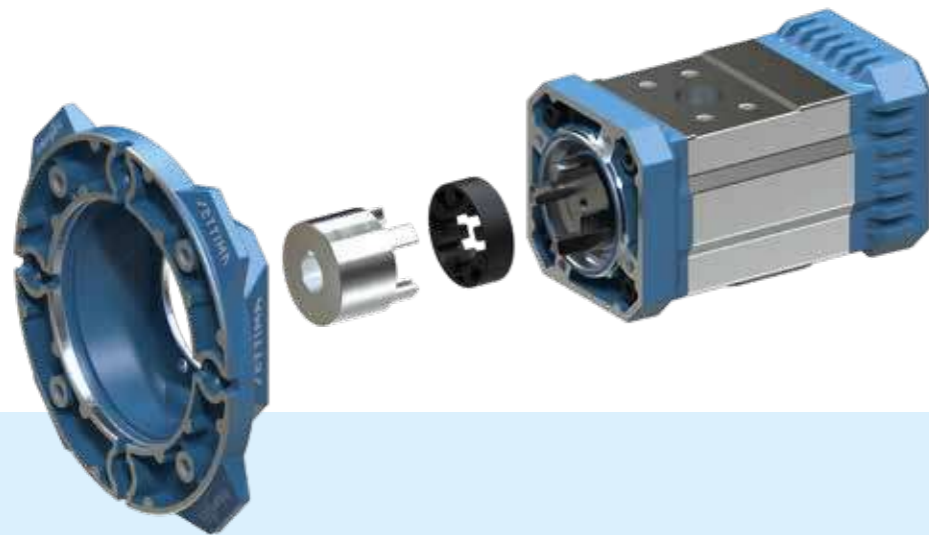
Select your Motor Coupling KIT

Your **Motor Coupling KIT** type depends on:

- Motor **Frequency** (Hz) and **Speed** (rpm)

[Ref. to Performance Charts pages 24-59]

ITEM	COUPLED MOTOR	CODE
5	80	M08
	90	M09
	100-112	M11
	132	M13
	160	M16
	180	M18
	200	M20



ORDERING CODE EXAMPLE

TRIUMFLEX® PUMP + MOTOR COUPLING KIT

ORDERING CODE: **SM-TRFXA034038M08...**

A = ASSEMBLED PUMP
034 = PUMP SIZE
038 = SCREW PITCH
M08 = MOTOR COUPLING KIT 80

STEP 3

Select your Port type - Suction

Your **Port KIT** type depends on:

- Your **System Layout**

ITEM	INLET PORT TYPE	CODE
6	Without inlet port KIT	--
	Radial-90° T1 BSPP threaded	T1
	Radial-90° T2 BSPP threaded	T2
	Radial-90° T3 BSPP threaded	T3
	Radial-90° T4 BSPP threaded	T4
	Axial BSPP threaded	AX

ITEM	OUTLET PORT TYPE	CODE
7	Without outlet port KIT	--
	BSPP threaded	M



ORDERING CODE EXAMPLE

TRIUMFLEX® PUMP + MOTOR COUPLING KIT + PORT KIT

ORDERING CODE: **SM-TRFXA034038M08T4M...**

A = ASSEMBLED PUMP
034 = PUMP SIZE
038 = SCREW PITCH
M08 = MOTOR COUPLING KIT 80

T4 = RADIAL-90° T4 BSPP THREADED
M = WITH OUTLET PORT BSPP THREADED

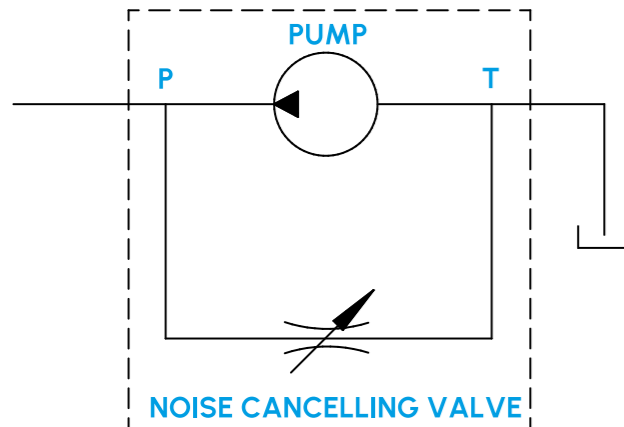


STEP 4

Noise Cancelling Valve KIT

If your system has a very high amount of trapped air select the NV Valve KIT.

ITEM	NOISE-CANCELLING VALVE	CODE
8	Without noise-cancelling valve	--
	With noise-cancelling valve	NV



[NV]



ORDERING CODE EXAMPLE

TRIUMFLEX® PUMP + MOTOR COUPLING KIT + PORT KIT + NV VALVE KIT

ORDERING CODE: **SM-TRFXA034038M08T4MNV...**

A = ASSEMBLED PUMP
034 = PUMP SIZE
038 = SCREW PITCH
M08 = MOTOR COUPLING KIT 80

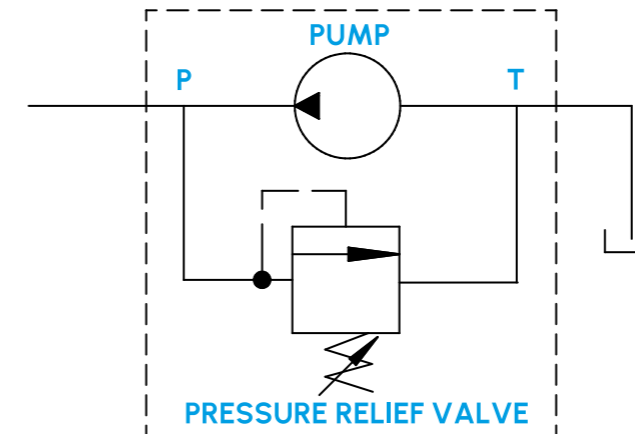
T4 = RADIAL-90° T4 BSPP THREADED
M = WITH OUTLET PORT BSPP THREADED
NV = NOISE-CANCELLING VALVE

STEP 5

Pressure Relief Valve KIT

If your pump requires protection against overpressure select RP Valve KIT.

ITEM	PRESSURE RELIEF VALVE SETTING RANGE	CODE
9	Without pressure relief valve	--
	2 ÷ 15 bar	01
	10 ÷ 50 bar	02



[01] [02]



ORDERING CODE EXAMPLE

TRIUMFLEX® PUMP + MOTOR COUPLING KIT + PORT KIT + NV VALVE KIT + RP VALVE KIT

ORDERING CODE: **SM-TRFXA034038M08T4MNV01**

A = ASSEMBLED PUMP
034 = PUMP SIZE
038 = SCREW PITCH
M08 = MOTOR COUPLING KIT 80

T4 = RADIAL-90° T4 BSPP THREADED
M = WITH OUTLET PORT BSPP THREADED
NV = NOISE-CANCELLING VALVE
01 = PRESSURE RELIEF VALVE (setting range 5÷15 bar)

ELECTRO-HYDRAULIC GROUPS

THE PERFECT MATCH BETWEEN PERFORMANCE AND RELIABILITY



TRIUMFLEX®

DELPHI

SIZES 56-132

Motive® motors are built according to international standard regulations; each size throughout the construction forms is calculated with reference to the tables of standard IEC 72-1 therefore 100% compatible with Triumflex® kits.

All DELPHI motors of Motive® are three-phase, multiple voltage multi-frequency 50/60Hz, to have only one motor covering all Settima's clients worldwide, F class insulation, (H on request) S1 continuous duty service, like all our pumps IP55 protection, therefore suitable for the pumps outdoors use (IP56, 66 and 67 on request), IE2, IE3 or IE4 efficiency classes to not to waste Triumflex® patented screws profiles efficiency, tropicalized winding (encapsulated on demand) for ambients where Triumflex® has to face high humidity, suitable for Motive® NEO-OLEO or NANO-OLEO control units for single phase and three phase hydraulic power packs to save energy at variable power demand.

- IE2, high efficiency class IEC 60034-30-1
- IE3, premium efficiency class IEC 60034-30-1
- IE4, super premium efficiency class IEC 60034-30-1

Know DELPHI 56-132



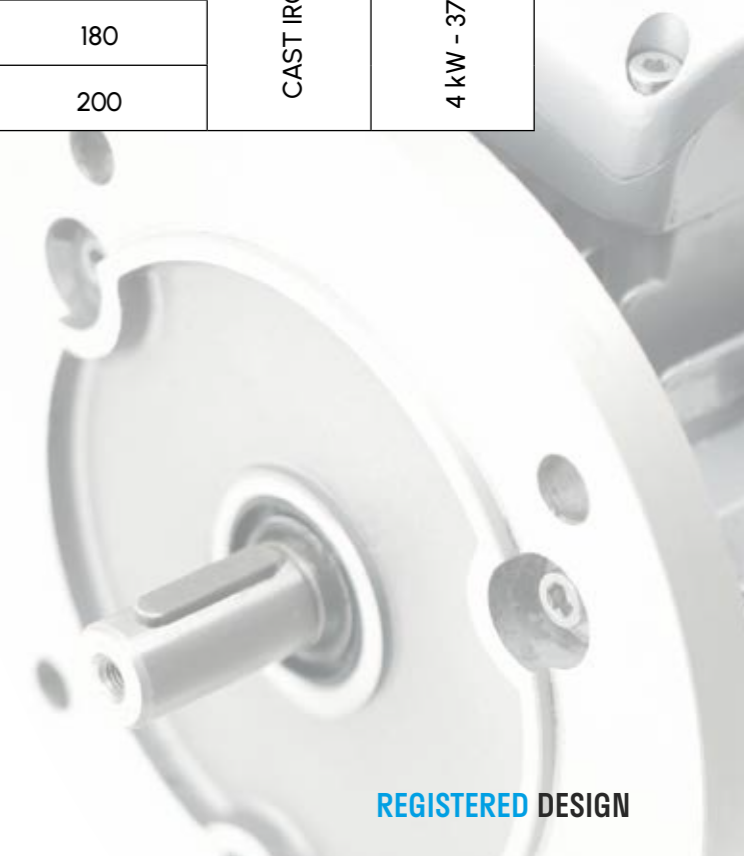
SCAN THE QR CODE

Available also in "Ex" version, ATEX certified for all Ex groups of inflammable/explosive oils and dusts.



II 2G Ex eb IIC T4-T6 Gb
II 2D Ex tb IIIC T120°C IP65...67 Db
Tamb = -20°C + 40..60°C

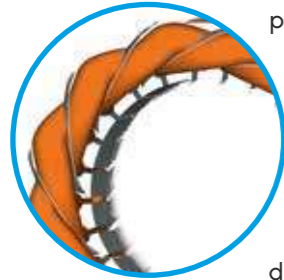
TYPE OF POWER		
56	ALUMINIUM	0,09 kW - 11 kW
63		
71		
80		
90		
100		
112		
132	CAST IRON	4 kW - 37 kW
160		
180		
200		



REGISTERED DESIGN

The copper is impregnated with a double layer of insulating enamel to ensure high resistance to electrical, thermal and mechanical stress.

The phases are further isolated by an additional layer of Nomex film to protect the motors from the voltage peaks that usually occur when the motor pump is controlled by a NANO/NEO-OLEO, a variable speed drive which permits the automatic control of the flow and the pressure of the pump.

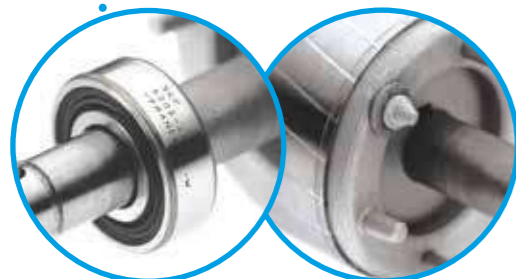


The frame, up to 132 included, is made in die casting aluminium alloy to combine the lightness of Triumflex® body up to 11 kW. From size 160 up to 200 the frame is made in cast iron to support the high torque required by the 50 bar of Triumflex®.

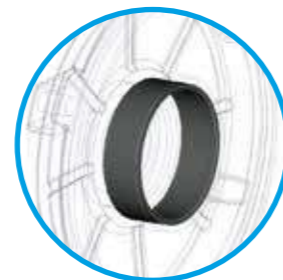


An aspect of Settima's concept

"sound of silence": bearings selected for their silence and reliability and, for the same objectives, the cage rotor is dynamically balanced twice.



From type 90, a steel insert is provided in the bearing slot of the aluminum flanges, to resist to radial mechanical forces with a fair degree of security.



Aiming the maximum protection and ready-to use like Triumflex®, the motors are already equipped with important details like the pull-resistant cable gland.

To protect them by the rust, Motive® motors are painted like Triumflex® flanges and covers (Triumflex® main body is anodized).



The connection box can be rotated of 360° with steps of 90°



As a Triumflex® can be mounted in any position, the cable gland can be easily moved on both the sides of the connection box, thanks to the screw cap.



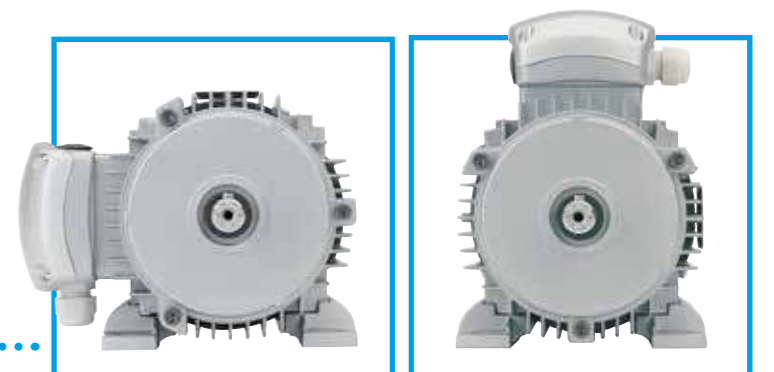
Very thick and made of a special plastic material, the fan cover is:

- impact resistant
- soundproofing
- scratchproof
- rustproof



Performance excellence is granted by the low loss CRNO "FeV" magnetic laminations adoption, instead of the usual Semi Processed/Decarb "FePO1". FeV laminations provide higher efficiency, lower heating, energy saving and longer life to insulation materials.

From size 56 to size 132, feet are detachable, and can be fixed on 3 sides of the housing, thus permitting the terminal box to be positioned up, right or left for a neater wiring on the hydraulic power pack



TRIUMFLEX®
DELPHI

SIZES 160-200

Motive® three phase motors from size 160 up to size 200 are made in cast-iron and have all those main features of the Delphi series, among which:

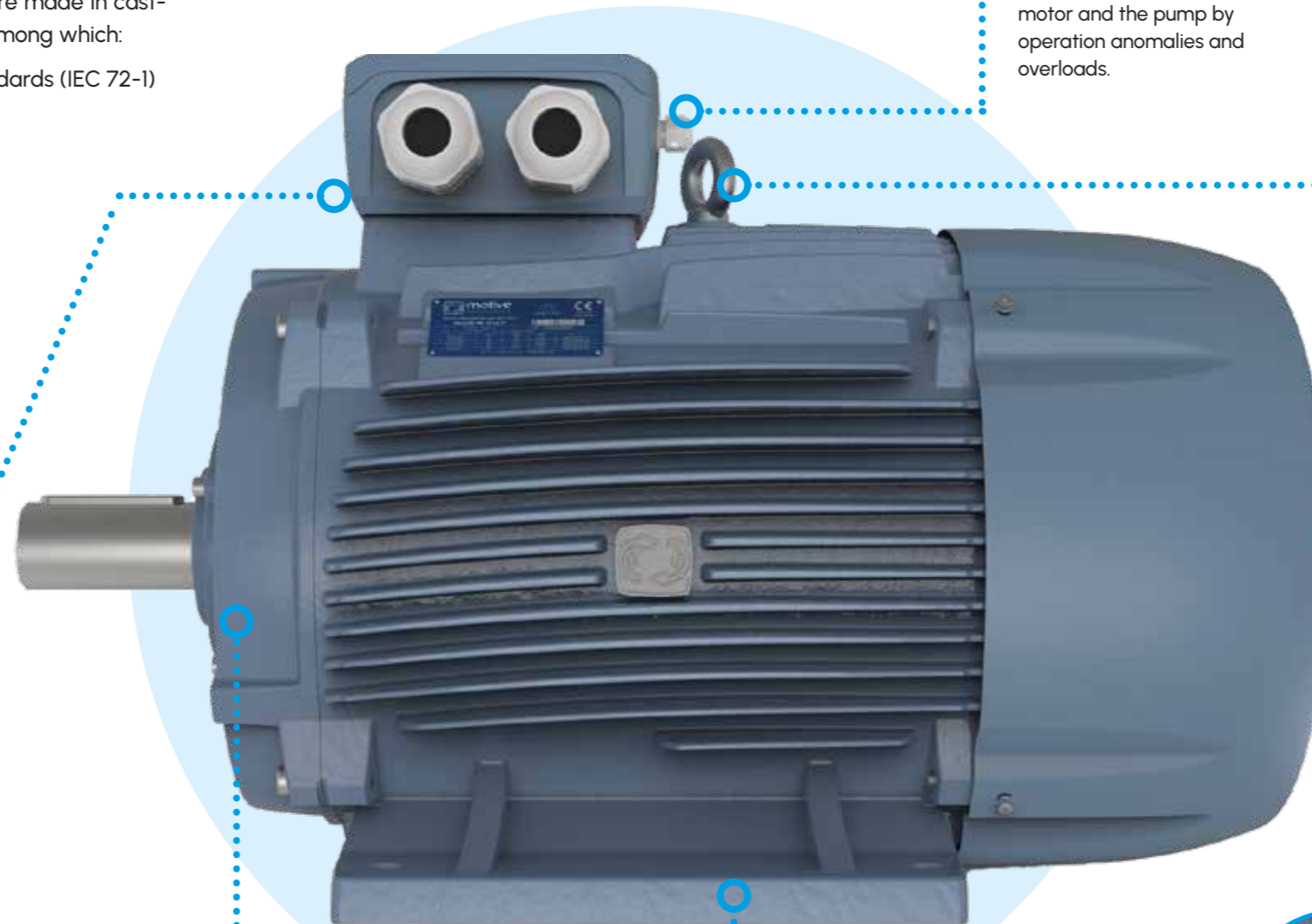
- standardized dimensions according to International standards (IEC 72-1)
- multiple voltage and multi-frequency 50/60Hz,
- F class insulation, [upon request H+ (delfire)]
- S1 continuous duty service,
- IP55 protection (IP56, 66 and 67 on request)
- tropicalized winding and reinforced insulation
- suitable for inverter power supply

IE2, high efficiency class IEC 60034-30-1
IE3, premium efficiency class IEC 60034-30-1
IE4, super premium efficiency class IEC 60034-30-1

Keeping the same sealing system of the whole Delphi series, the terminal box up to size 200 is made in aluminum, thus guaranteeing its IP65 protection index without being affected by the usual finishing imperfections of the cast iron.



Also the cast-iron motors 160-200 are maintenance free, like the pump, because they have shielded auto-lubricated bearings, thus avoiding the need of a periodical re-greasing maintenance.

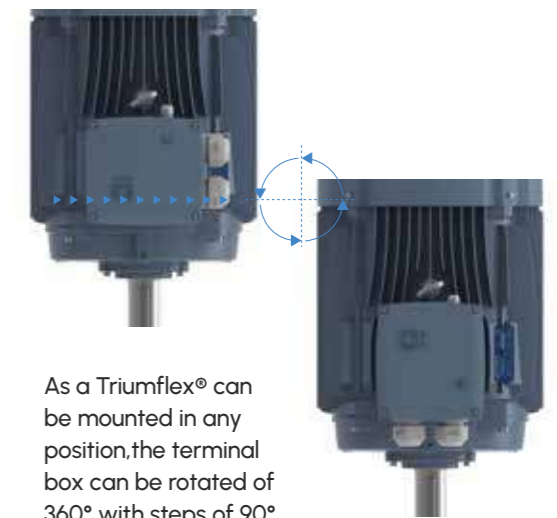


Provided with 3 PTC thermistors that protect the motor and the pump by operation anomalies and overloads.



Available also in "Ex" version, ATEX certified
II 2G Ex eb IIC T4-T6 Gb
II 2D Ex tb IIIC T120°C IP65...67 Db
Tamb = -20°C + 40..60°C

Equipped by lifting eyebolts [one for B3 version (feet fixing), two for B5 version (flange fixing)] able to withstand the weight of the motor with the pump.



As a Triumflex® can be mounted in any position, the terminal box can be rotated of 360° with steps of 90°



Given the high torque required by the 50 bar of Triumflex®, the fixing from size 160 up is ensured by feet integrally casted with the housing.

Know DELPHI 160-355



SCAN THE QR CODE

TRIUMFLEX®

NANO

NANO is for single phase power supply, three phase motorpumps. This permits NANO to add to the well known power saving of variable speed drives, the possibility to replace the single phase motors (technically losing lot of power) with the higher efficiency IE2, IE3 and IE4 three phase motors.

Setting and command can also be made by a PC, thanks to the free PC interface program "Motive® Motor Manager".



Any NANO can be fixed to a wide range of motors up to 2.2 KW.

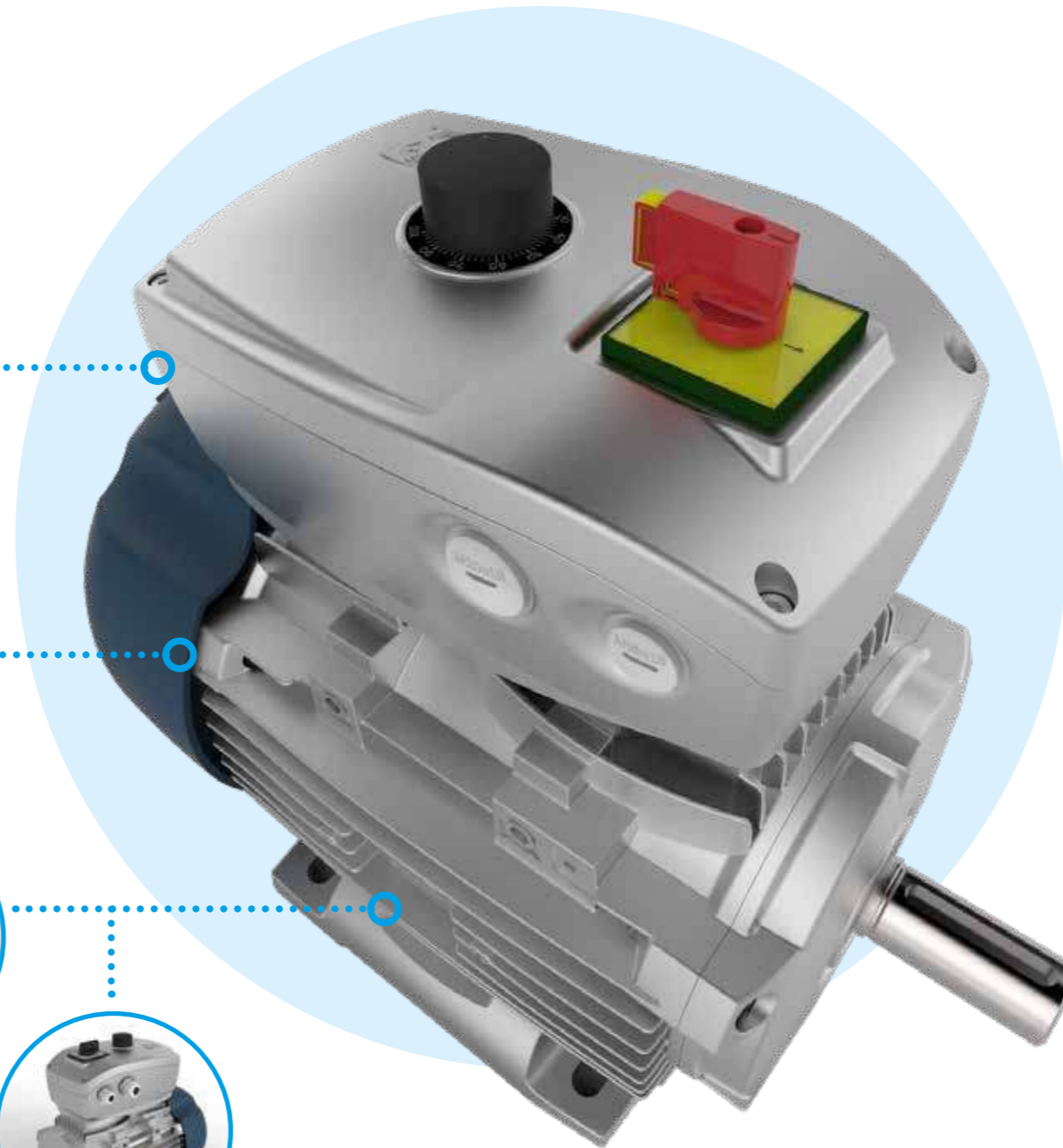
A voltage booster guarantees a stable torque Nm at very slow speed too.



Thanks to BLUE, Motive® bluetooth transmitter for NANO and NEO, and to the free App NANO, you can make the setting or command NANO via tablets or smartphones.



NANO can be commanded by analog controls or MODBUS.

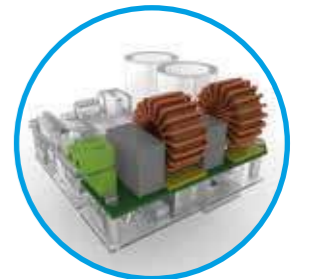


Available also in "Ex" version, ATEX certified



II 2D Ex tb III C T135°C Db
Tamb: -20 +40 °C

NANO is also offered in the version "NANO-OLEO", with a SW specifically modified for the automatic speed+power adaptation to the required pressure and variable flow rate of hydraulic power packs.



The EMC filter makes NANO compatible not just with industrial environment, but also with light industrial, commercial and residential environments.

FEATURES	SYMBOL	U.O.M	NANO-0.75	NANO-2.2
Inverter protection degree*	IP		IP65*	
Inverter input voltage	V _{in}	V	1x110(-10%)+240(+10%)	
Inverter input frequency	f _{in}	Hz	50/60 (±5%)	
Inverter output frequency	f ₂	Hz	200% f _{in} (f ₂ 0+100Hz with f _{in} 50Hz)	
Rated output inverter current (to the motor)	I _{2n}	A	4	9

TABLE RP: POWER RANGE OF MOTORS THAT CAN BE CONNECTED (AT 230VAC)										
KW motor	0,13	0,18	0,25	0,37	0,55	0,75	1,1	1,5	1,9	2,2
NANO-1.1										
NANO-2.2										

TABLE RD: SIZE RANGE OF IEC MOTORS THAT CAN BE CONNECTED								
IEC Motor	63	71	80	90S	90L	100L	112M	132S
NANO-1.1								
NANO-2.2								

Know NANO-OLEO



SCAN THE QR CODE

TRIUMFLEX®

NEO

NEO-WiFi, also supplied in the version NEO-OLEO for the automatic control of the flow rate and the pressure of hydraulic power packs, is a three-phase variable speed drive designed as a competitive and user-friendly turnkey integrated system, with all parts, motor, inverter and control designed for outdoor use, and with standard remote control.

The hydraulic power packs can thus be offered as "plug-in". It is only needed to insert the plug, wherever it is installed, and decide if you want to bring the keypad with you.

IP65 high degree of protection against dust and water for outdoor use.



To maintain the degree of protection and eliminate fragile and complicated connectors, the keypad is automatically powered by induction when the panel is housed in the lid of the NEO, or, when remote controlled, it is automatically powered by rechargeable batteries that are provided standard, or by BLOCK.



The keypad can be positioned or removed from its seat without any tools, because it adheres to it with 4 magnets.

Any NEO can be connected to a wide range of motorpumps of different power and size up to 22 KW.

One keypad can control up to 8 units.



Available also in "Ex" version, ATEX certified



II 2D Ex tb III C T135°C Db
Tamb: -20 +40 °C

The keypad is available in two versions with or without analog potentiometer and switch, thus being perfect for those who want to control the speed manually and for those who just want to set the pressure and let the speed go automatically.

You can make the settings and control NEO via tablet, smartphone or PC.



The keypad can be fixed to a metal wall with its magnets or to a concrete wall.

Motor KW	0.13	0.18	0.25	0.37	0.55	0.75	1.1	1.5	1.9	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	
NEO-OLEO-3																				
NEO-OLEO-5.5																				
NEO-OLEO-11																				
NEO-OLEO-22																				

Know NEO-OLEO

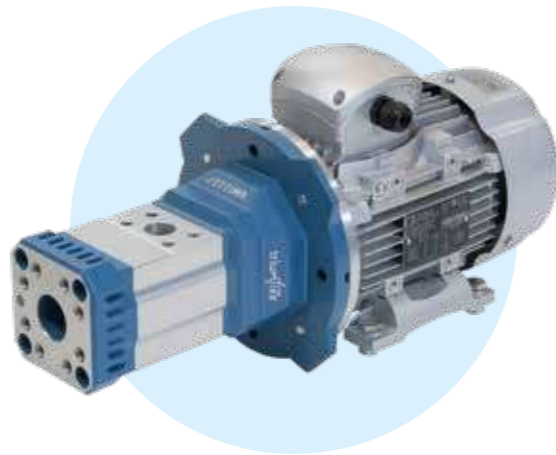


SCAN THE QR CODE

TRIUMFLEX®

ATEX

Compliant with directive 2014/34/ EU covering ATEX zones 1, 2, 21 and 22.



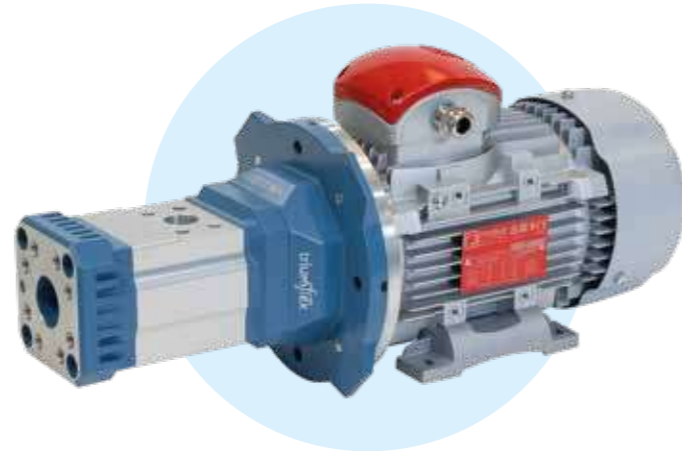
EXPLOSIVE ATMOSPHERES

TRIUMFLEX®

DELFI

Delfire is an innovative range of motors specifically designed to work in an ambient temperature up to 100°C in S1 continuous duty.

Max oil temp: 80°C



HIGH TEMP. RESISTANT

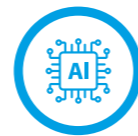
TRIUMFLEX®

DOCTOR 4.0

The predictive maintenance solution to ensure production continuity and productivity of hydraulic power packs and the whole machines that they are connected with.

Unique features: one package of data exchange per second and unlimited power supply (no battery) by means of Ethernet connection.

DOCTOR 4.0 learns normal and abnormal operation by itself. It measures temperature, vibration, noise, magnetic flux, partial and total working time, external pressure, flow rate, power, speed, etc.



AI PLATFORM



PREDICTIVE MAINTENANCE

7 MOTIVES

TRIUMFLEX® + MOTIVE®
ELECTRO-HYDRAULIC GROUPS

- + Motor and pump specifically designed for each other
- + Energy efficiency optimization
- + Performance data reliability
- + Improved mechanical coupling reliability
- + Single responsibility for the entire system
- + Lower logistics costs
- + Greater competitiveness and offer customization



CODING SYSTEM

**ELECTRO
HYDRAULIC
GROUPS**

CONFIGURATION

HOW TO CONFIGURE YOUR TRIUMFLEX® ELECTRO-HYDRAULIC GROUPS



If you have configured your Triumflex® pump (Ex. SM-TRFXA034038M08T4MNV01) and you would like to configure your Triumflex® electro-hydraulic group, change **SM-TRFXA034038M08T4MNV01** with **SM-TFGA034038M08T4MNV01** and then start your configuration from **Item 10**.

ITEM	ITEM DESCRIPTION	ITEM CODE
1	Category pump model Triumflex®	SM-TFG
2	Type	Assembled (A)
3	Pump size	026 - 034 - 041 - 046 - 053 - 062
4	Screw pitch	From 029 to 100
5	Motor coupling KIT	From motor size 80 to 200
6	Inlet - Port type	T1 - T2 - T3 - T4 or AX BSPP threaded
7	Outlet - Port type	M BSPP threaded
8	Noise-cancelling valve	NV
9	Pressure relief valve (RP) setting range	5 ÷ 15 bar (01) / 10 ÷ 50 bar (02)
10	Variable frequency drive type	Without VFD, NANO or NEO
11	Motor number of poles	2 - 4 - 6 poles
12	Motor power (kW)	From 0,75 kW to 30 kW
13	Motor voltage (V)	230-400 V / 400-690 V
14	Motor frequency	50 Hz - 60 Hz
15	ATEX motor	Yes or No
16	Group Assembly Orientation	N1,2,3,4. M1,2,3,4. R1,2,3,4. L1,2,3,4.
17	Custom Option	M000

STEP 6

Select variable frequency drive type

- Triumflex® NANO/NANO OLEO (NA)
- Triumflex® NEO/NEO OLEO (NE)

ITEM	VARIABLE FREQUENCY DRIVE TYPE	CODE
10	Without VFD	--
	Nano VFD	NA
	NEO VFD	NE



STEP 7

Select motor number of poles

ITEM	MOTOR NUMBER OF POLES	CODE
11	2 poles	2
	4 poles	4
	6 poles	6

ORDERING CODE EXAMPLE

YOUR TRIUMFLEX® ELECTRO-HYDRAULIC GROUP

ITEM 1	...	ITEM 9	ITEM 10	ITEM 11	ITEM 12	ITEM 13	ITEM 14	ITEM 15	/	ITEM 16
SM-TFG	...	NA	2	007	02	05	A	N1	/	M000

P/N: SM-TFGA000001

ORDERING CODE: **SM-TFGA034038M08T4MNV01/NA20070205AN1**

ORDERING CODE EXAMPLE

TRIUMFLEX® ELECTRO-HYDRAULIC GROUP

ORDERING CODE: **SM-TFGa034038M08t4MNV01/NA2...**

NA = NANO VARIABLE FREQUENCY DRIVE
2 = 2 POLES MOTOR

STEP 8

Select power (kW)

ITEM	MOTOR SIZE	POWER (kW)	CODE
12	80 - 2 poles	0,75	007
		1,1	011
	80 - 4 poles	0,55	005
		0,75	007
	80 - 6 poles	0,37	003
		0,55	005
	90 - 2 poles	1,5	015
		2,2	022
	90 - 4 poles	1,1	011
		1,5	015
	90 - 6 poles	0,75	007
		1,1	011
	100 - 2 poles	3	030
	100 - 4 poles	2,2	022
		3	030
	100 - 6 poles	1,5	015
	112 - 2 poles	4	040
	112 - 4 poles	4	040
112 - 6 poles	2,2	022	
132 - 2 poles	5,5	055	
	7,5	075	
	9,2	092	

ITEM	MOTOR SIZE	POWER (kW)	CODE
12	132 - 4 poles	5,5	055
		7,5	075
		9,2	092
	132 - 6 poles	3	030
		4	040
		5,5	055
	160 - 2 poles	11	110
		15	150
		18,5	185
	160 - 4 poles	11	110
		15	150
	160 - 6 poles	7,5	075
		11	110
	180 - 2 poles	22	220
	180 - 4 poles	18,5	185
		22	220
	180 - 6 poles	15	150
	200 - 2 poles	30	300
		37	370
	200 - 4 poles	30	300
18,5		185	
200 - 6 poles	22	220	

STEP 9

Select motor voltage (V)

ITEM	MOTOR VOLTAGE	CODE
13	230 - 400 V	02
	400 - 690 V	04

STEP 10

Select motor frequency (Hz)

ITEM	MOTOR FREQUENCY	CODE
14	50 Hz	05
	60 Hz	06
	50 - 60 Hz	56

STEP 11

Select ATEX motor

ITEM	ATEX MOTOR	CODE
15	No	-
	Yes	A

ORDERING CODE EXAMPLE

TRIUMFLEX® ELECTRO-HYDRAULIC GROUP

ORDERING CODE: **SM-TFGA034038M08t4MNV01/NA2007...**

NA = NANO VARIABLE FREQUENCY DRIVE
 2 = 2 POLES MOTOR
 007 = 0,75 kW (80 - 2 POLES)

ORDERING CODE EXAMPLE

TRIUMFLEX® ELECTRO-HYDRAULIC GROUP

ORDERING CODE: **SM-TFGA034038M08t4MNV01/NA20070205A...**

NA = NANO VARIABLE FREQUENCY DRIVE
 2 = 2 POLES MOTOR
 007 = 0,75 kW (80 - 2 POLES)
 02 = 230-400 V (Voltage)

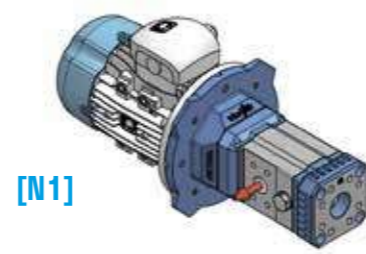
05 = 50 Hz (Motor Frequency)
 A = ATEX

STEP 12

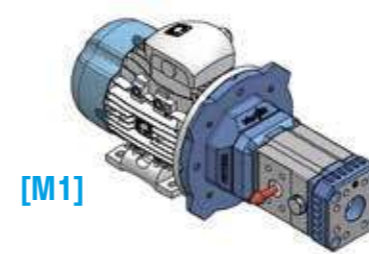
Select group assembly orientation

Motor feet and wiring box configuration.

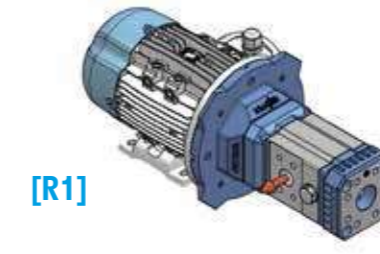
ITEM	GROUP ASSEMBLY ORIENTATION	CODE
16	B5 - M270	N1
	B5 - M000	N2
	B5 - M090	N3
	B5 - M180	N4
	B35 - UP - M270	M1
	B35 - UP - M000	M2
	B35 - UP - M090	M3
	B35 - UP - M180	M4
	B35 - RIGHT - M270	R1
	B35 - RIGHT - M000	R2
	B35 - RIGHT - M090	R3
	B35 - RIGHT - M180	R4
	B35 - LEFT - M270	L1
	B35 - LEFT - M000	L2
	B35 - LEFT - M090	L3
	B35 - LEFT - M180	L4



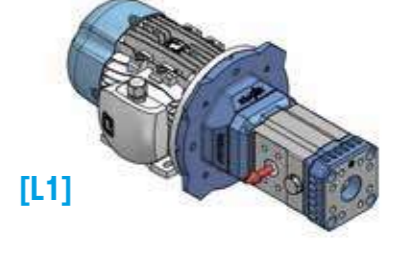
[N1]



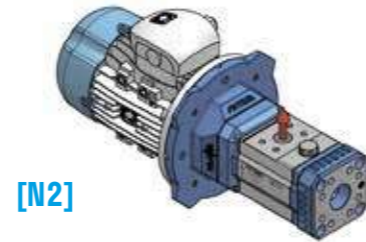
[M1]



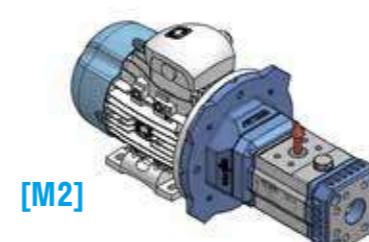
[R1]



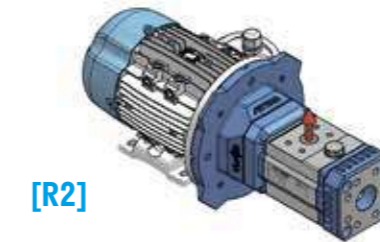
[L1]



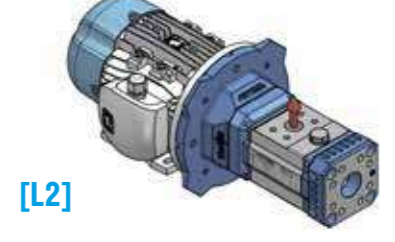
[N2]



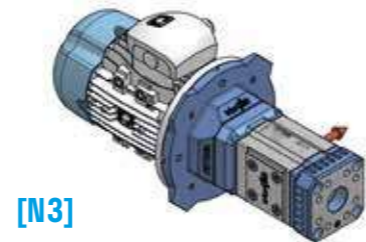
[M2]



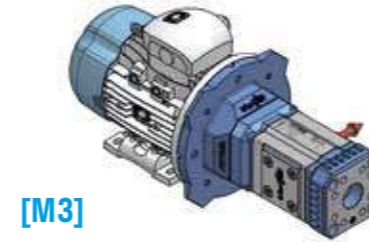
[R2]



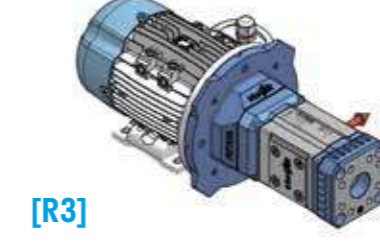
[L2]



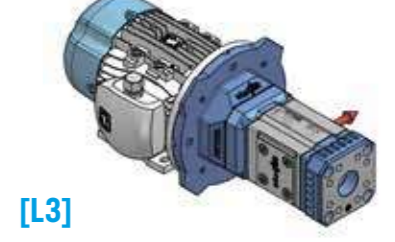
[N3]



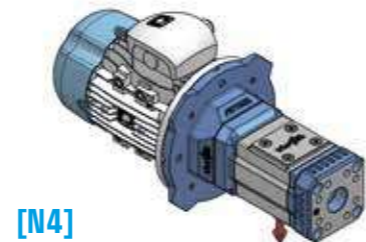
[M3]



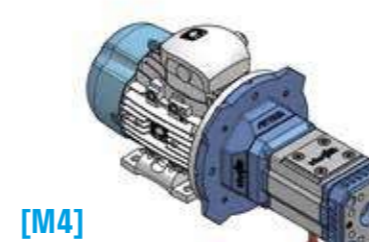
[R3]



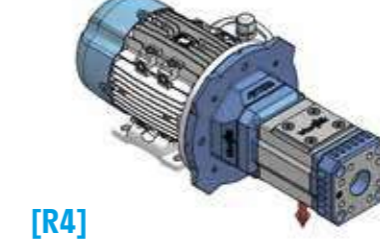
[L3]



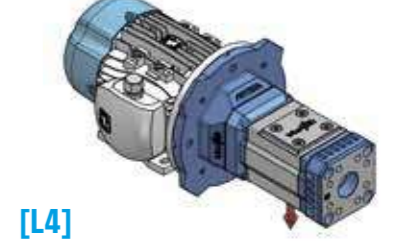
[N4]



[M4]



[R4]



[L4]

ORDERING CODE EXAMPLE

TRIUMFLEX® ELECTRO-HYDRAULIC GROUP

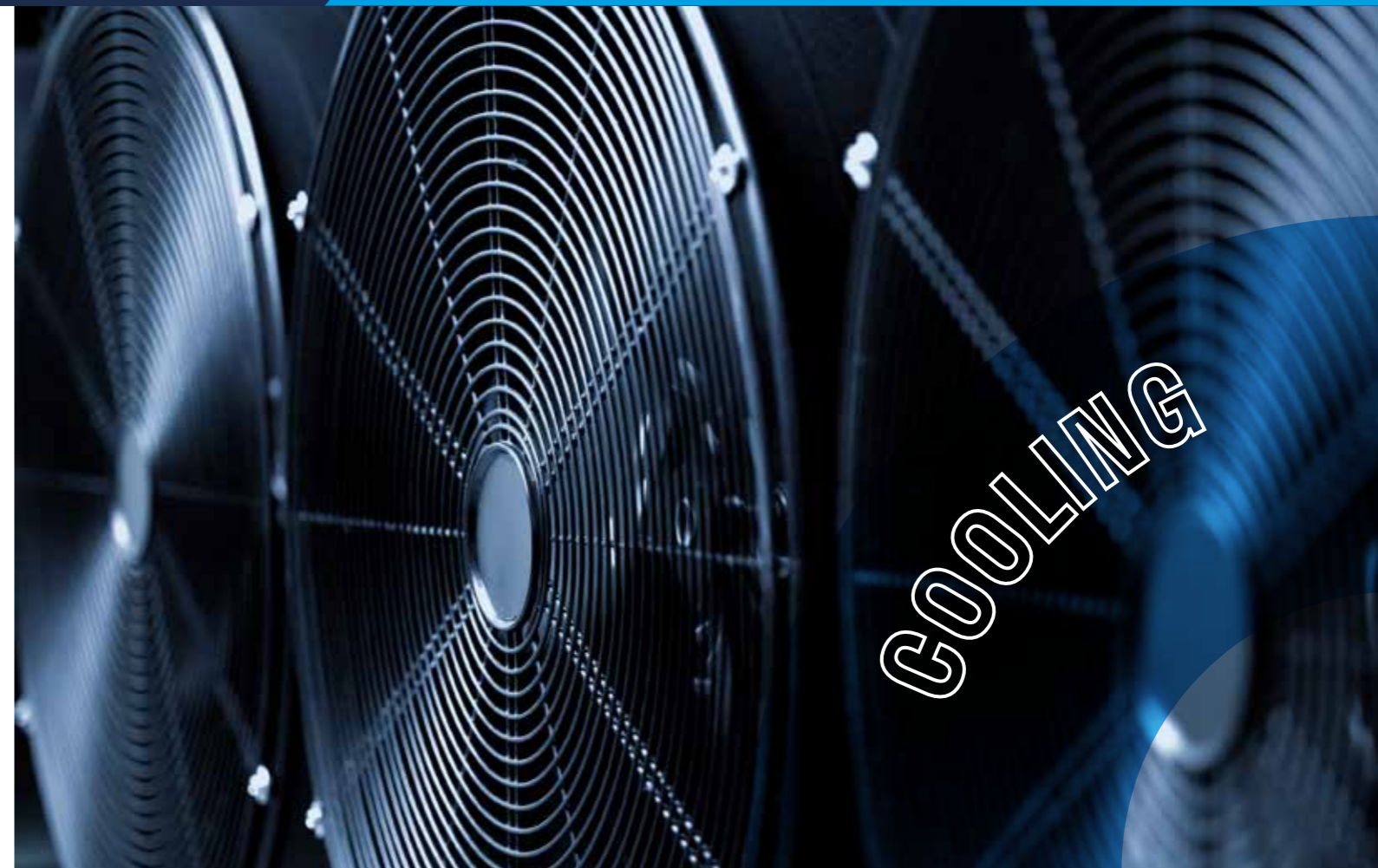
ORDERING CODE: **SM-TFGA034038M08t4MNV01/NA20070205AN1**

NA = NANO VARIABLE FREQUENCY DRIVE
 2 = 2 POLES MOTOR
 007 = 0,75 kW (80 - 2 POLES)
 02 = 230-400 V (Voltage)

05 = 50 Hz (Motor Frequency)
 A = ATEX
 N1 = Group Assembly Orientation



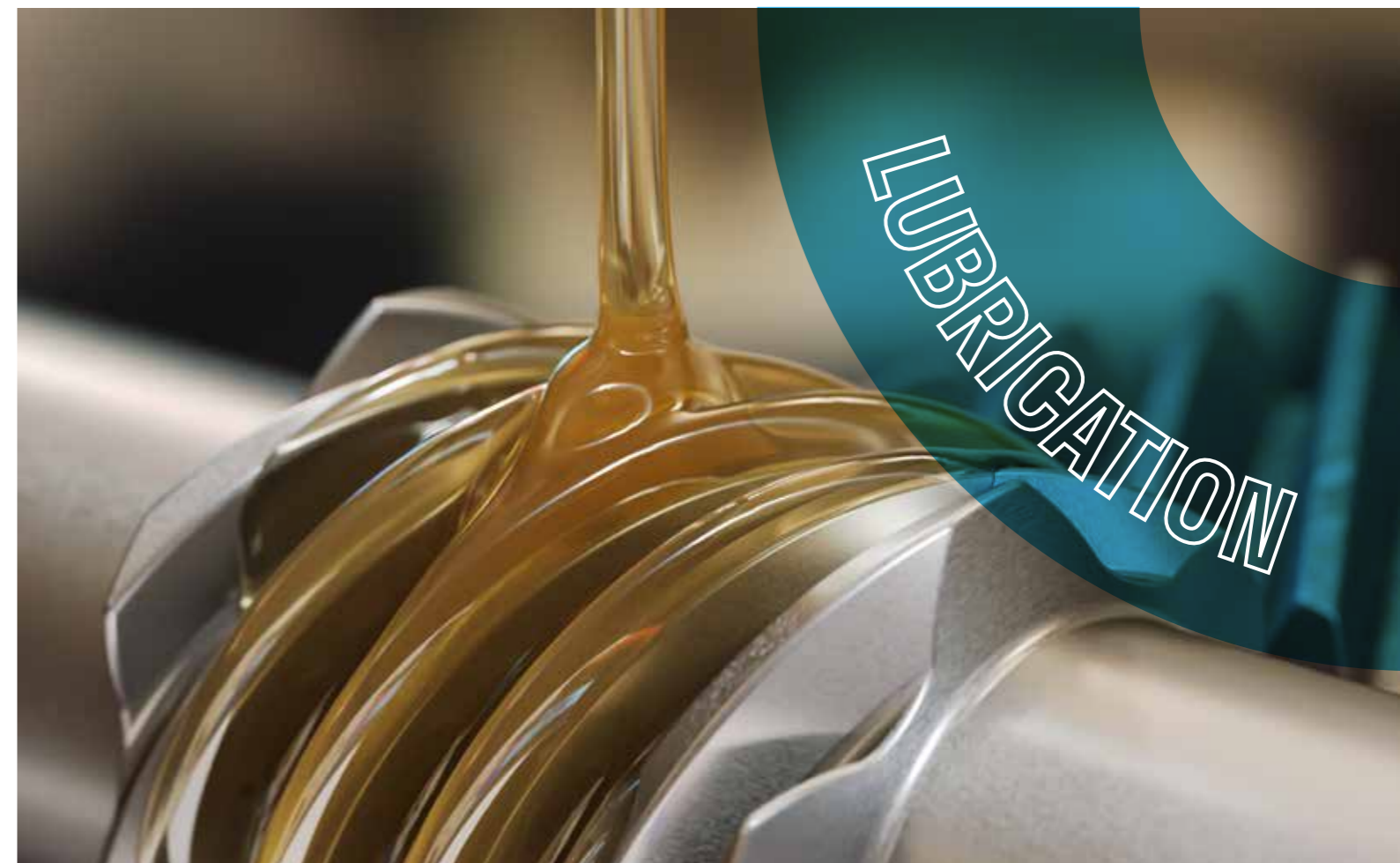
FILTRATION



COOLING



OIL TRANSFER



LUBRICATION



LEADING THE ENERGY TRANSITION, TOGETHER

Driven by the combined expertise of Settima, Spin, and Motive, GREEN SILENCE GROUP delivers groundbreaking hydraulic, electro-hydraulic, and mechatronic solutions backed by exceptional technical support and real value.



ULTRA-SILENT HYDRAULICS

www.settima.it



HIGH EFFICIENCY, ELECTRIC MOTORS & DRIVES

www.motive.it



Engineering Solutions

ELECTRIC MOTORS & ACTUATORS, ADVANCED
ENGINEERING & CONTROL ELECTRONICS

www.spinmag.it



www.settima.it



HEADQUARTERS (ITALY)

Viale G. Rossetti, 1
29016 Cortemaggiore (PC)

PHONE:
+39 **0523 3650**



SETTIMA ASIA

Shanghai Office
Room 101-102, End of Lane 729,
Jing'an District, Shanghai (CHINA)
ZIP: 200040

CHINA MARKET PHONE:
+86 **130 6179 8555**
+86 **137 0165 3227**

ASIA MARKET PHONE:
+86 **185 1638 3599**



SETTIMA USA INC.

3030 Cullerton Street,
Franklin Park, IL
60131, USA

PHONE:
+1 (630) **812-1433**

For your projects send your request to: triumflex@settima.it